



# **STIC Search Report**

**EIC 3700**

**STIC Database Tracking Number 22402**

**TO: William Rodriguez**  
**Location: RND 9a71**  
**Art Unit: 3746**  
**Tuesday, May 08, 2007**

**Case Serial Number: 10/806087**

**From: Terry Solomon**  
**Location: EIC 3700**  
**RND 8b31**  
**Phone: 272-4240**

**terrance.solomon@uspto.gov**

## **Search Notes**

**No current or active litigation found involving US pat. 6672846.**

**Sources:**

**Lexis/Nexis**  
**Questel-Orbit**  
**Courtlink**

842349 (09) 6672846 January 6, 2004

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6672846

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January 6, 2004

Capacity modulation for plural compressors

**REISSUE:** March 22, 2004 - Reissue Application filed Ex. Gp.: 3748; Re. S.N. 10/806,087 (O.G. June 22, 2004)

**APPL-NO:** 842349 (09)

**FILED-DATE:** April 25, 2001

**GRANTED-DATE:** January 6, 2004

**ASSIGNEE-PRE-ISSUE:** April 25, 2001 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., COPELAND CORPORATION 1675 W. CAMPBELL ROADSIDNEY, OHIO, 45365, Reel and Frame Number: 011757/0024

**ASSIGNEE-AT-ISSUE:** Copeland Corporation, Sidney, Ohio, United States (US), United States company or corporation (02)

**ASSIGNEE-AFTER-ISSUE:** April 26, 2007 - CERTIFICATE OF CONVERSION, ARTICLES OF FORMATION AND ASSIGNMENT, EMERSON CLIMATE TECHNOLOGIES, INC. 1675 W. CAMPBELL RD. SIDNEY OHIO 45365-0669, Reel and Frame Number: 019215/0273

**LEGAL-REP:** Harness, Dickey & Pierce, P.L.C.

Patent Search 6,672,846 5/8/2007

No cases found.

Selected file: PLUSPAT  
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database

**\*\* SS 1: Results 1**  
**PRT SS 1 MAX 1 LEGALALL**

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image  
**Patent Number :**  
US2002159898 A1 20021031 [US20020159898]  
**Patent Number 2 :**  
US6672846 B2 20040106 [US6672846]  
**Title :**  
(A1) Plural compressors  
**Patent Assignee :**  
(B2) COPELAND CORP (US)  
**Patent Assignee :**  
Copeland Corporation, Sidney OH [US]  
**Patent Assignee 2 :**  
(B2) COPELAND CORP (US)  
**Inventor(s) :**  
(A1) RAJENDRAN RAJAN (US); SHERIDAN JOHN P (US); KNAPKE CARL H (US)  
**Application Nbr :**  
US84234901 20010425 [2001US-0842349]  
**Priority Details :**  
US84234901 20010425 [2001US-0842349]  
**Intl Patent Class :**  
(A1) F04B-017/00 F04B-035/04 F04B-049/00  
**IPC Advanced All :**  
F04C-018/02 [2006-01 A L I R M JP]; F04C-023/00 [2006-01 A - I R M EP];  
F04C-023/02 [2006-01 A L I R M JP]; F04C-028/02 [2006-01 A L I R M JP];  
F04C-028/08 [2006-01 A L I R M JP]; F04C-029/00 [2006-01 A - I R M EP];  
F04C-029/04 [2006-01 A - I R M EP]  
**IPC Core All :**  
F04C-018/02 [2006 C L I R M JP]; F04C-023/00 [2006 C - I R M EP];  
F04C-028/00 [2006 C L I R M JP]; F04C-029/00 [2006 C - I R M EP];  
F04C-029/04 [2006 C - I R M EP]  
**EPO ECLA Class :**  
F04C-023/00B  
F04C-023/00D  
F04C-028/08  
F04C-029/00B2  
F04C-029/04B  
F04C-029/12B  
**EPO ICO Class :**  
R04C-018/02B2  
R04C-029/10C2B  
**US Patent Class :**  
ORIGINAL (O) : 417410500; CROSS-REFERENCE (X) : 417426000 418055100  
**Document Type :**  
Corresponding document  
**Citations :**  
Cited; US5800141; US6206652; US6213731; US6267572; US6280154;  
JP56165701; JP5738690; JP0294987; JP04121474; JP404203489; Cited;  
US4105374; US4205537; US4252506; US4277955; US4358254; US4396360;  
US4515539; US5211031; US5328344; US5385453; US6193473  
**Publication Stage :**  
(A1) Utility Patent Application published on or after January 2, 2001  
**Publication Stage 2 :**  
(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**Abstract :**  
A compressor system includes a pair of compressors located in a common shell. A common drive shaft drives both compressors and the drive shaft

is powered by a single motor. One or both of the compressors can be equipped with a pulse width modulated capacity control system and a vapor injection system. When one compressor is equipped with these systems, the capacity can be varied between 50% and 110%. When both compressors are equipped with these systems, the capacity can be varied between 0% and 120%.

**Update Code :**  
2002-45

1 / 1 LGST - @EPO

**Patent Number :**  
US2002159898 A1 20021031 [US20020159898]  
US6672846 B2 20040106 [US6672846]

**Application Number :**  
US84234901 20010425 [2001US-0842349]

**Action Taken :**  
20010425 US/AS-A  
ASSIGNMENT  
OWNER: COPELAND CORPORATION 1675 W. CAMPBELL ROADSIDNEY,; EFFECTIVE  
DATE: 20010417  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:RAJENDRAN, RAJAN  
/AR;REEL/FRAME:011757/0024

20040406 US/CC-A  
CERTIFICATE OF CORRECTION

20040622 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040322

**Update Code :**  
2006-04

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**  
6,672,846 A 20040106 [US6672846]

**Patent Assignee :**  
Copeland Corp

**Actions :**  
20040322 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040622  
REISSUE REQUEST NUMBER: 10/806087  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3748

Reissue Patent Number:

20070426 REASSIGNED  
CERTIFICATE OF CONVERSION, ARTICLES OF FORMATION AND ASSIGNMENT

Assignor: COPELAND CORPORATION, DATE SIGNED: 09/27/2006

Assignee: EMERSON CLIMATE TECHNOLOGIES, INC., 1675 W. CAMPBELL RD.,  
SIDNEY, OHIO, 45365-0669

Reel 019215/Frame 0273

Contact: MICHAEL MALINZAK, HARNESS, DICKEY & PIERCE, P.L.C., 5445

CORPORATE DR., TROY, MI 48098

Session finished: 08 MAY 2007 Time 14:11:50  
QUESTEL.ORBIT thanks you. Hope to hear from you again soon.